



WATKINS AND DONCASTER

ESTABLISHED 1879



110, PARKVIEW ROAD,
WELLING, KENT

PRICE ONE SHILLING

1907



WATKINS & DONCASTER

The Naturalists



110, PARKVIEW ROAD, WELLING, KENT

Telephone: Bexley Heath 4347



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AQUARIA

AQUARIUM HEATER

	Ref.
Supplied in all wattages, A.C./D.C.	10/6 A500

THERMOSTATS

Submersible, A.C./D.C., 500 watts A.C., 200 watts, D.C.	22/6 A501
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WATER AERATORS (Montrose)

A.C. only, 200/240 volts., silent running. Guaranteed one year, will work twelve diffusers	29/6 A502
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AERATOR ACCESSORIES

Rubber tube clamps	1/3 A503
"T" junction pipes, metal	1/- A504
Air diffuser blocks	1/- A505

AQUARIUM TANKS

... ..	A507
Prices on application.	

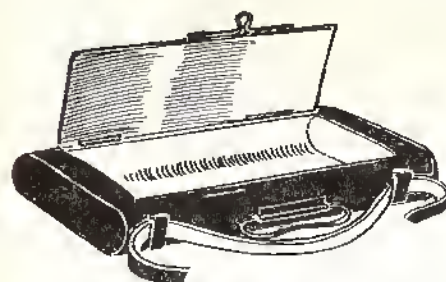
BOOKS

Freshwater life of The British Isles, John Clegg	21/-
(Wayside & Woodland Series)	

BOTANY

BOTANICAL VASCULA

For collecting plants and flowers. Black Japanned finish, with sling.



Size $8\frac{1}{4}'' \times 10\frac{3}{4}'' \times 2\frac{1}{2}''$
(Rectangular) ... 7/6 B.500

*Size $13\frac{1}{2}'' \times 6\frac{1}{2}'' \times 2\frac{1}{2}''$... 25/- B.501

*Size $15'' \times 7\frac{1}{2}'' \times 3''$... 32/6 B.502

*Size $18'' \times 8\frac{1}{2}'' \times 3''$... 40/- B.503

*As illustrated.

BOTANICAL PRESS Wire Mesh, with tapes

Size $16'' \times 12''$	12/6 B.504
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BOTANICAL DRYING PAPER

Size $17\frac{1}{2}'' \times 11\frac{1}{4}''$	per quire 7/6 B.505
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BOTANICAL MOUNTING LABELS

Standard Pattern.	Per 100	1/6	B.507
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BOTANICAL MOUNTING OR HERBARIUM PASTE

Per jar	1/9	B.508
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BOTANICAL RAZORS

One sided for section cutting.	In case.	Finest make	12/-	B.509
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BOTANICAL LENSES, Tripod—Brass, lacquered and black japanned

5×5, 40 mm. diameter	12/6	B.510
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4×4, 50 mm. diameter	19/6	B.511
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BOOKS

Johns, Rev., Flowers of the Field, 266 coloured illustrations.	16/-
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Wayside & Woodland Series, STEP, EDWARD, 3 vols., coloured plates
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(SEE BACK)	Vol. 1 - 394 species	12/6
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PAGE	Vol. 2 - 350 species	12/6
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	Vol. 3 - 154 species	12/6
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Wayside & Woodland Ferns, STEP, EDWARD
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In same series	12/6
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Wayside & Woodland Trees, STEP, EDWARD
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In same series	12/6
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Collins' New Naturalist Series
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Vol. 5. Wild Flowers (General), Gilmour & Walters	25/-
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Vol. 19. Wild Orchids of Britain, Summerhayes, 61 colour photos	21/-
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Vol. 16. Wild Flowers of Chalk and Limestone, Lousley, 52 colour photos.	21/-
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Vol. 10. British Plant Life, Turrit, 53 colour photos.	21/-
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Trees in Britain, Brimble, profusely illustrated	15/-
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HANDBOOK OF THE BRITISH FLORA

Bentham & Hooker
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Vol. 1. Text	25/-
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Vol. 2. Illustrations of Flowers	25/-
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Vol. 3. Further illustrations	25/-
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Flora of the British Isles, Clapham, Tutin & Warburg, 1,59f pp., with excellent glossary	50/-
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Black's Young Naturalist Series
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Wild Flowers, Philipson	6/6
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The Observer's Pocket Series
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British Wild Flowers, Stokoe	5/-
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British Ferns, Stokoe	5/-
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British Grasses, Sedges & Rushes, Stokoe	5/-
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Trees and Shrubs of the British Isles	5/-
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DISSECTING INSTRUMENTS

Ref.

SCALPELS

All steel, plain, best quality, small, medium, large	each	4/6	D.500
Swann-Morton (detachable blades). Handles	...	...	each	3/6	D.501
Various shaped blades	...	...	each	5d.	D.502

FINE NEEDLE SCALPELS

In wooden handle, single or double edges	each	1/9	D.503
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UNIVERSAL NEEDLE HOLDERS

With screw chuck for various sized needles, long handle	each	2/6	D.504
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SEEKERS. Angular, in handle	each	6d.	D.505
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NEEDLES. in handle, straight or curved	each	6d.	D.506
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SCISSORS. Fine pointed dissecting	pair	7/6	D.507
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Larger size	pair	10/6	
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Extra fine points, superb quality, stainless steel, small size	pair	12/6	D.508
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WATCH GLASSES. 2½" diam.	each	8d.	D.509
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EXCAVATED GLASS BLOCKS

Size 1½" x 1½" square. Superior quality	each	2/6	D.510
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Cover glasses for above	each	4d.	D.511
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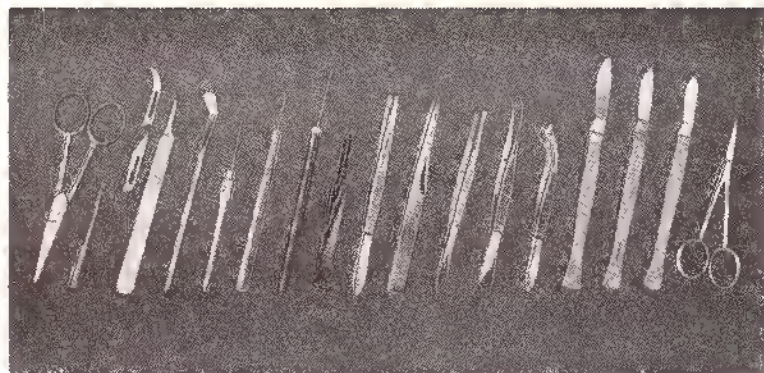
FORCEPS

Fine pointed, light firm touch	each	2/6	D.512
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Straight, square ended, serrated	each	1/9	D.513
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Slightly larger and stronger for use on rabbits, etc., round ended, with grip	each	1/9	D.514
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CLOTH INSTRUMENT ROLLS, with tapes	4/6	D.515
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D508

D504

D501

M512

E589

D505

D503

M511

D514

D512

D513

E526

D500

D507

EDUCATIONAL

Ref.

CHART OF LIFE HISTORY OF LARGE WHITE BUTTERFLY

In full colour, scientifically accurate, on strong art paper, size 25" x 38" 12/6 ED.500
Post and packing 1/6.

CHART OF BRITISH BUTTERFLIES

All species life size in full colours, showing sexual dimorphism and undersides of critical species. Post 6d.; ... 3/6 ED.501
or unfolded and sent rolled, 4/-; Postage and packing 1/6.

INSECT LIFE HISTORIES

In glazed museum style boxes, 6" x 4" x 1"; most species, such as Large White, Tortoiseshell, Wasp, Silk Worm, Cockroach, House Fly, Crane Fly, ecc. Fully labelled ... each 8/6 ED.502

STAG BEETLE DISSECTION

In glazed case, size 7" x 9", showing whole and dissected beetle (dry) with all parts fully labelled ... 12/6 ED.503

PROTECTIVE RESEMBLANCE CASES

Lepidoptera and other orders, 6" x 4" x 1" ... each 8/6 & 12/6 ED.504

WARNING COLORATION (Larva and Imagines)

Glazed case, 6" x 4" x 1" ... 8/6 ED.505

MIMICRY

Cases 6" x 4" x 1", with insects of different orders ... 8/6 ED.506

Larger cases of tropical specimens to order.

INSECT ORDERS

Insects of 10 different orders, in glazed case, size 7" x 9". Fully labelled ... 12/6 ED.507

SEASONAL DIMORPHISM

Wet and dry seasons, using tropical butterflies in glazed case 7" x 9" .. 21/-

SEXUAL DIMORPHISM IN INSECTS

In case 6" x 4" x 1" .. 8/6

THE INDIAN LEAF BUTTERFLY

Illustrating protective pattern and colour, in case 7" x 9" .. 15/6

AQUATIC INSECTS

Selected British, in case 7" x 9" .. 15/6

BRITISH BUTTERFLIES

20 Selected specimens, in case 14" x 10", with Latin and English names 30/-

BRITISH BEETLES

30 Selected specimens, fully named, in case 14" x 10" .. 42/-

SEED DISPERSAL

By wind, attractive display, in glazed case 7" x 9", fully named .. 12/6

Ditto — by splitting .. 12/6

Ditto — by animals .. 12/6

FIR CONES

Attractive set of 8 different species, mounted on board and fully named 7/6

BOOKS

Simple Experiments With Insects, Kalmus, over 100 experiments in insect behaviour, and physiology, 40 illustrations ... 7/6
Borradaile, Manual of Zoology ... 24/-
British Wild Animals, R. L. E. Ford ... 6/6
British Amphibia & Reptiles, R. L. E. Ford ... 6/6
Pond Life, well illustrated, R. L. E. Ford .. 6/6

BEATING TRAY

Bignell pattern, complete

ENTOMOLOGY

Ret.

£2/0/0 E.500

BOXES

E501

Card, glass bottomed, round, nesting, 1" to 3"
As illustrated. per nest of 7
Plastic, round, No. 19, 2" dia. ... each
Plastic, round, No. 20, 2½" dia. ... each
Cardboard, round, for egg-laying (nest of 8)
½" to 2½" ...

15/- E.501
6d. E.501A
8d.
1/6 E.501B

Round, metal, glass topped, for eggs and young
larvae:—

1½" diam. ...
2" " ...
2½" " ...
3" " ...
Extra deep, 3½" diam. ...

9d. E.502
1/- E.503
1/2 E.504
1/5 E.505
2/5 E.506

Rectangular, glass topped, museum style, black outside, white inside,
cork lined, wooden framed.

Size 8" x 6" ... each

8/6 E.507

Size 8" x 12" ... each

12/- E.508

Size 14" x 10" ... each

19/6 E.508a

CABINETS

Second-hand cabinets of all sizes and types always available. Send for
separate list.

CEMENT

For repairing insect bodies, antennae, etc. ... per tube

9d. E.509

For repairing wings only ... per bottle

9d. E.510

CHECK LIST OF BRITISH LEPIDOPTERA (Heslop)

Fully indexed ...

4/- E.511

1st Supplement, with the recent additions, 5 pp., printed one side only,
post free

1/9 E.511a

2nd Supplement ...

6d. E.511b

3rd Supplement ...

9d. E.511c

CHLOROFORM BOTTLES

Metal screw capped, etc., vapour tight ...

12/6 E.512

CHLOROFORM OR SPIRIT BOTTLES

Ground glass stoppered, 1 oz. ...

1/9 E.513

COLEOPTERA COLLECTING TUBES

2½" x ½". These have plastic caps to corks, enabling them to be opened
with one hand ... per doz.

1/6 E.514

CORK SHEET

For drawer and box lining, ⅜" thick ... per sq. ft.

2/3 E.515

DATA LABELS

Printed to your specifications ... Min. charge per 1,000

12/6 E.516

EXHIBITION CASES

Wooden, glazed, corked and papered. Close fitting.

Size 10" x 8" ...

19/6 E.517

Size 13" x 9" ...

22/6 E.518

Size 14" x 10" ...

26/- E.519

Postage and packing for above 3/- extra.

Also Size 16" x 12" ...

32/- E.521

Size 18" x 14" ...

40/- E.522

Size 18" x 18" ...

47/6 E.523

These last three sizes cannot be sent by parcel post.

FIELD COLLECTING TINS

With sling, cork lined (for transferring specimens from killing bottles),
black japanned. Size 8½" x 10½" x 2½" ...

7/6 E.524

E.527

**FORCEPS, CURVED INSECT**

As above, stainless steel, with peg, 5" ...

8/6 E.525

Ditto, but fine pointed ...

6/6 E.526

Ditto, as illustrated, but without peg, stainless steel ...

7/6 E.527

GUM

For Coleoptera mounting	per bottle	1/6	E.528
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HYPODERMIC SYRINGE

For killing large moths, hawks, etc., 1 c.c., with two rustless needles	7/6	E.529
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Extra needles	each	9d.	E.530
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KILLING BOTTLES

With large corks (Without chemicals)	Small 3/3 ; Medium 4/6 ; Large 5/6	E.531
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Ground glass stoppered	Small 3/6; Large 6/-	E.532
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Flat, oval for pocket, for Coleoptera	each 3/6	E.532A
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KILLING BOTTLE BUNGS

Best Cork, three useful sizes	the set	2/6	E.532b
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KILLING FLUID

For butterflies and moths	per bottle 9d., 1/6 & 3/-	E.533
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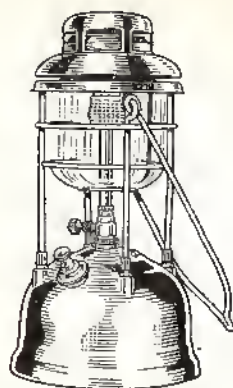
For Hymenoptera and Coleoptera, etc.	per bottle 9d., 1/6 & 3/-	E.534
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LABEL LIST

For British butterflies, Latin and English names	6d.	E.535
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For British moths, Latin and English names, on good paper	3/6	E.536
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The above are printed one side only, for cutting out, includes recent additions.

**TILLEY (Regd.) STORM LANTERN**

MODEL X246

Burns Ordinary Paraffin

An ideal all-purpose lamp. Strong and sturdy in construction, it will give a lifetime of service. Completely storm-proof, it gives a powerful white 300 candlepower light. Simple and safe to use. Solid brass container. Gold sprayed finish.

Height 13½" Weight (without oil) 5 lbs.

Burns 12 hours on 1½ pints of paraffin

£3/15/0	E.537
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Spare mantles	each	1/-	E.538
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LARVAE PRESERVING OUTFIT

Oven, spirit lamp, tubes, mouthpiece, complete	17/6	E.539
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Double rubber bellows for above	8/6	E.540
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**LARVAE CAGES, Metal & Plastic**

These are tall enough to hold food plants in water and soil.

Will pack with base and lid inside cylinder for travel, with perforated top.

Size 8" diam. × 16" high	12/6	E.541
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Size 7" diam. × 16" high	10/6	E.541a
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Size 8" diam. × 16" high, heat resisting	16/-	E.542
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E512

E543

E545

E502

E503

E504

E505

Ref.

LARVAE COLLECTING TINS, Pocket

Perforated. (Also suitable for carrying lizards and mice)

4 1/2" diam.	...	...	...	...	...	...	...	1/4	E.543
Perforated tops, superior quality, with side aperture for filling	3"	...	...	...	...	...	...	3/6	E.545
	4"	...	...	...	...	...	...	4/6	E.545a

LENSES

Folding pocket, best quality.

X.10	...	...	...	...	...	...	7/6, 13/6, 18/9 and	48/9	E.546
X.8	...	...	...	...	...	...	...	6/9	E.547
X.15	21/-	E.548
Ditto, triple folding	13/6	E.549

LENS

Watchmaker's pattern	3/6	E.550
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NET HANDLES

Telescopic, to fit all size makes, 15" closed, 4' 9" when extended, strong.

duralumin	22/6	E.551
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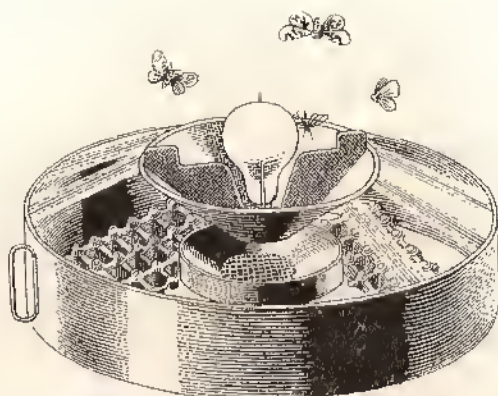
NETS, COMPLETE (with holder, but without stick)

Pocket, spring steel, 12" diam., olding to pocket size, brass socket, complete with bag	12/6	E.552
Butterfly, plain cane, brass Y, complete with bag	...	...	...	...	...	...	12" 10/6; 14"	12/6	E.553
These have a fairly coarse mesh bag.									
Plain cane, brass Y, good quality bag	...	...	...	...	...	...	...	17/6	E.554
Large Kite pattern, lightweight rustless metal, complete with bag	...	...	...	...	...	...	...	30/-	E.555
Fourfold rustless metal, 14", brass socket, with bag	...	...	...	...	...	...	...	21/-	E.555a
Scissor pattern, for Hymenoptera, etc., complete	...	...	...	...	...	...	...	15/-	E.556

EXTRA BAGS FOR THE ABOVE

Fairly coarse mesh	...	...	...	...	...	...	12" 4/6; 14"	5/6	E.557
Spring Steel net bag (fine quality)	...	...	...	...	...	...	...	7/6	E.558
Large Kite net bag, black, fine	...	...	...	...	...	...	...	14/-	E.559
Ditto for sweeping hymenoptera, etc., white calico	...	...	...	...	...	...	...	15/-	E.560
4-joint folding net pattern, black mosquito, 14"	...	...	...	...	...	...	...	12/6	E.561

Circumference of net frame should be given when ordering if in doubt.



MOTM TRAPS

Robinson's Registered Mercury Vapour moth trap, complete with all fittings except long flex for distant use, but including choke, bulb, etc. £15/10/- E.562

Extra flex, plastic per 50-yards 25/- E.563

Suitable for 200-250 volts A.C. supply.

TRAP, without Electrical Fittings) £7/10/0

M.V. BULB, only (125w. 200/250v.) posted at purchaser's risk ... £2/5/-

CHOKE, only £5/4/-

TRANSFORMER

For use with 110 volt, A.C. circuits £7/11/3

COLLAR, transparent 25/-

Plugs, Holders, complete set 14/-

Please state voltage when ordering.

GENERATOR, Portable, Petrol, for the above £49/15/0

PASTE Best quality for papering cabinets (mix with cold water) per tin 1/6 E.564

PEAT, for Pupating, specially treated per bag 2/6

PINS

English Entomological, plated brass —

Size No. —

16 11 12 13 5 17 7 8 9 20

Length —

35 mm. 34 mm. 30 mm. 28 mm. 25 mm. $\frac{7}{8}$ " 23 mm. 20 mm. $\frac{8}{8}$ " 15 mm.

White, $\frac{1}{2}$ oz. —

1/3 1/3 1/6 1/9 2/- — — — —

White, $\frac{1}{4}$ oz. —

— — — — 1/3 1/6 1/6 2/- 3/- E.565

Black, $\frac{1}{2}$ oz. —

1/6 1/6 1/9 2/- 2/6 — — — —

Black, $\frac{1}{4}$ oz. —

— — — — 1/9 2/- 2/3 2/6 3/6 E.566

Continental, sizes 0, 1, 2, 3, 4, 5 (when available). Lengths all $1\frac{1}{8}$ ".

Black steel per 100 1/9 E.567

Stainless steel per 100 2/- E.568

Glass headed, for setting, etc. per box of 100 3/- E.569

Lill, short, for holding setting tapes, etc. per $\frac{1}{4}$ lb. box 5/- E.570

Micro Pins, stainless steel, our own make.

Diameters .0056, .0076, .0089, .010.

Lengths 10 mm., $12\frac{1}{2}$ mm., 15 mm. per 100 1/5 E.571

Diameters .0124, .0166, .0179.

Lengths 15 mm., 20 mm., 25 mm. (1 inch) per 100 1/9 E.572

									Ref.
CABINET POINTS , for labelling	...	...	...	...	per 100	1/-	E.572a
PIN BOXES Polished hardwood, with six divisions	...	...	...	...	...	10/6	E.573
PIN CUTTERS									
Best steel for use with entomological pins	...	...	...	...	...	10/6	E.574
PINNING STAGE									
Standard museum heights, improved design, flat top	...	...	...	...	...	7/6	E.575
POSTAL BOXES									
Corked for insects, wooden.									
5" x 3 1/4" x 3"	...	...	...	...	...	6/-	E.576
6" x 3 1/4" x 3"	...	...	...	...	...	7/-	E.577
8" x 4" x 2 1/2"	...	...	...	...	...	8/-	E.578
POLYPORUS STRIPS									
For staging with micro pins	...	...	...	...	per 1/8 oz. box	2/6	E.579
POOTERS									
Glass insect aspirators, complete	...	...	...	...	...	5/-	E.580
Ditto, in celluloid	...	...	...	...	...	6/6	E.581
RELAXING TINS									
Including bottle of fluid, 4 1/2" x 6"	...	...	...	...	...	4/-	E.582
Ditto, large, 6" x 9"	...	...	...	...	...	5/-	E.583
Ditto, superior quality, 7" x 5" x 2"	...	...	...	...	...	9/6	E.584
RELAXING FLUID	...	...	...	...	per bottle	9d.	E.585
LAUREL MIXTURE , freshly made	...	...	...	...	per tin, small 2/6; large 3/6	E.586	
SATCMELS									
Very superior green rot-proof canvas, 2 divisions, 14" wide, adjustable	...	...	...	...	...	28/6	E.587
slings	...	...	...	...	...	7/6	E.588
Small, khaki, strong, to hold up to three killing bottles, with sling	...	...	...	...	...	7/6	E.588
SETTING NEEDLES									
In handle, rustless	...	...	...	...	each	6d.	E.589
SETTING BOARDS									
					Flat corked and papered (14" long)				
1"	1/6 E.590	4"	...	4/1	E.596
1 1/2"	1/10 E.591	4 1/2"	...	4/7	E.597
2"	2/3 E.592	5"	...	5/1	E.598
2 1/2"	2/9 E.593	5 1/2"	...	5/6	E.599
3"	3/2 E.594	6"	...	6/-	E.600
3 1/2"	3/8 E.595				
					Wider boards to order.				
In folding travelling case, all metal with green enamel finish, 14" x 9"	...	...	...	...	...	55/-	E.601
with full length boards, complete	...	...	...	...	...	55/-	E.601
SETTING PAPER									
25-yard rolls	...	Width 10 mm. 1/3; 15 mm. 1/6; 20 mm. 1/8; 25 mm. 1/10	...	...	...	E.602	
SEX SIGNS									
Both sexes included	...	...	...	...	per sheet	6d	E.603
SPIRIT LAMPS									
Complete with gauze top for larva preserving	...	...	...	...	...	1/3	E.604
Ditto, better quality, normal pattern, lamp only	...	...	...	...	...	3/6	E.605
STAGES FOR INSECT EXAMINATION									
With heavy base, with cork head on rotating arm, universal movement	...	...	...	...	...	12/6	E.606
Rotating stage, with side adjustment	...	...	...	...	...	21/-	E.607
SUGARING MIXTURE									
Pre-war quality (cannot post in hot weather) supplied in a 2 lb. tin, half-filled for safety	...	...	...	...	Post Free	3/6	E.608
SWEEPING NET (For larvae and Coleoptera)									
All metal, rustless, umbrella pattern, diam. 20", complete with extra strong bag	...	...	...	...	...	30/-	E.610

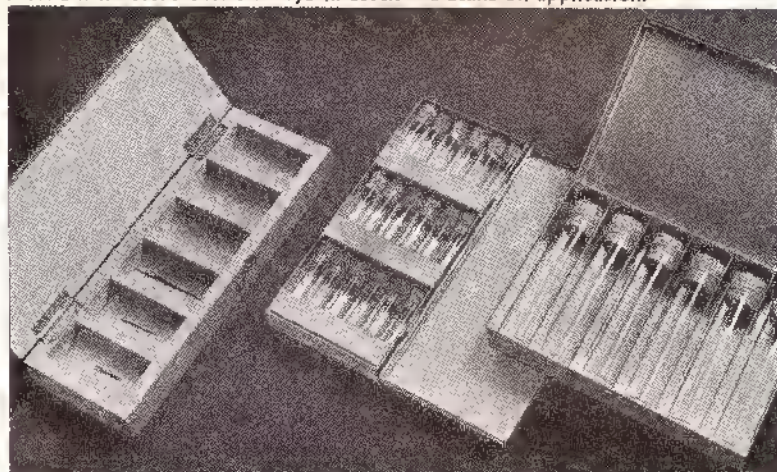


STORE BOXES

New, as illustrated, double sides, corked and papered with camphor cell.

Sizes	Prices	Ref.
10" x 8" ...	22/6	E.611
13" x 9" ...	26/-	E.612
14" x 10" ...	30/-	E.613
16" x 11" ...	35/-	E.614
17½" x 12" ...	38/-	E.615

These are normal depth, for extra deep sizes add 3/-.
Second-hand store boxes always in stock. Details on application.



E.573		E.622		E.624	
TUBES. Glass with corks.					
Size 1½" x ¾"	per dozen	10d. E.616
Size 2" x 1½"	per dozen	1/2 E.617
Size 3" x 2"	per dozen	1/8 E.618
Size 3" x 1"	per dozen	1/11 E.619
Size 4" x 1"	per dozen	2/2 E.620
Transparent plastic, screw cap, size 2½" x 1"		per dozen	2/6 E.621
SPECIAL OFFER OF GLASS TUBES.		Flat bottomed		with corks :	
Size 1" dia. x 5/8" long	per gross	6/-
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To hold 6 tubes each 3" x 1"	7/- E.625
To hold 5 tubes each 2 1/8" x 5/8"	Special Offer	2/6 E.625a

BRITISH BUTTERFLIES, SET

BOX AND POSTAGE ON ORDERS FOR SET SPECIMENS 1/9

m. — male, f. — female.

Swallowtail	2/6	Large Heath	m. 5d., . 8d.
Black-veined White ... m.	5/- f. 7/6.	Small Heath	2d.
Large White	3d.	Brown Hairstreak	6d.
Small White	2d.	White Letter Hairstreak ...	6d.
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Orange Tip	3d.	Purple Hairstreak	6d.
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Painted Lady	4d.	Lulworth Skipper	6d.
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A Quarterly Journal devoted
entirely to BRITISH ENTOMOLOGY

Edited by

E. W. CLASSEY, F.R.E.S., A.B.A.,

with the assistance of a panel of well-known entomologists.

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